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## Federal Research Dollars as a Resource

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# Federal Research Dollars as a Resource

Presented by  
Dr. Allen L. Sessoms, President  
April 7, 2008





## The Top American Research Universities

## The Top 200 Institutions – Federal Research Expenditures (2004)

Top 1-51 Institutions in Federal Research Expenditures	Federal Research x \$1000	National Rank	Control Rank	Institutional Control
Johns Hopkins University	1,229,426	1	1	Private
University of Washington - Seattle	625,218	2	1	Public
Stanford University	541,667	3	2	Private
University of Michigan - Ann Arbor	521,330	4	2	Public
University of California - San Diego	465,629	5	3	Public
University of California - Los Angeles	461,146	6	4	Public
University of Pennsylvania	435,343	7	3	Private
University of Wisconsin - Madison	434,423	8	5	Public
Massachusetts Institute of Technology	427,552	9	4	Private
University of California - San Francisco	418,944	10	6	Public
Columbia University	405,576	11	5	Private
Harvard University	399,764	12	6	Private
University of Pittsburgh - Pittsburgh	394,444	13	7	Public
Washington University in St. Louis	371,643	14	7	Private
Duke University	347,896	15	8	Private
Yale University	330,837	16	9	Private
Pennsylvania State University - University Park	313,196	17	8	Public
Baylor College of Medicine	312,660	18	10	Private
University of Southern California	312,589	19	11	Private
University of Minnesota - Twin Cities	309,369	20	9	Public
University of North Carolina - Chapel Hill	304,204	21	10	Public
Ohio State University - Columbus	284,675	22	11	Public
University of Arizona	263,956	23	12	Public
University of Illinois - Urbana-Champaign	275,896	24	13	Public
University of California - Berkeley	269,630	25	14	Public
University of Alabama - Birmingham	261,664	26	15	Public
Vanderbilt University	261,484	27	16	Public
California Institute of Technology	244,167	28	12	Private
Emory University	243,248	29	13	Private
Georgia Institute of Technology	237,463	30	17	Public
University of Texas - Austin	235,281	31	18	Public
University of Rochester	231,193	32	14	Private
Northwestern University	230,593	33	15	Private
University of Chicago	229,102	34	16	Private
Cornell University	224,828	35	17	Private
University of California - Davis	221,937	36	19	Public
University of Florida	221,898	37	20	Public
Boston University	219,054	38	18	Private
University of Colorado - Boulder	211,643	39	21	Public
University of Iowa	209,866	40	22	Public
Oregon Health & Science University	205,219	41	23	Public
University of Texas SW Medical Center - Dallas	200,888	42	24	Public
University of Colorado Health Sciences Center	199,193	43	25	Public
Case Western Reserve University	195,525	44	19	Private
University of Cincinnati - Cincinnati	194,965	45	26	Public
University of Illinois - Chicago	192,825	46	27	Public
University of Virginia	189,121	47	28	Public
University of Hawaii - Manoa	187,035	48	29	Public
New York University	181,441	49	20	Private
University of Maryland - College Park	180,943	50	30	Public
Texas A&M University	173,705	51	31	Public

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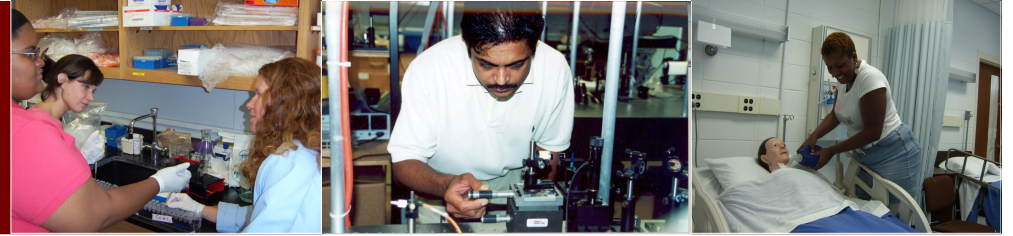
Top 100-153 Institutions in Federal Research Expenditures	Federal Research x \$1000	National Rank	Control Rank	Institutional Control
University of Vermont	79,015	103	67	Public
George Washington University	78,192	104	37	Private
University of Delaware	76,589	105	68	Public
New Mexico State University - Las Cruces	76,396	106	69	Public
University of Alaska - Fairbanks	75,269	107	70	Public
University of South Carolina - Columbia	71,856	108	71	Public
University of New Hampshire - Durham	67,917	109	72	Public
Washington State University - Pullman	67,674	110	73	Public
University of Nebraska - Lincoln	66,933	111	74	Public
Indiana University - Bloomington	66,766	112	75	Public
University of Connecticut - Health Center	66,357	113	76	Public
University of Massachusetts - Amherst	65,452	114	77	Public
US Naval Postgraduate School	64,667	115	78	Public
Uniformed Services Univ of the Health Sciences	62,408	116	79	Public
University of Connecticut - Storrs	61,252	117	80	Public
Oregon University	61,066	118	81	Public
West Virginia University	60,819	119	82	Public
University of Kansas - Lawrence	59,521	120	83	Public
Montana State University - Bozeman	59,074	121	84	Public
University of Dayton	56,647	122	38	Private
Kansas State University	56,088	123	85	Public
Louisiana State University - Baton Rouge	54,963	125	86	Public
Drexel University	54,963	124	39	Private
University of Louisville	54,476	126	87	Public
University of Arkansas for Medical Sciences	53,249	127	88	Public
University of California - Santa Cruz	53,196	128	89	Public
Rush University	51,706	129	40	Private
Rice University	51,157	130	41	Private
University of Nevada - Reno	50,787	131	90	Public
Temple University	50,456	132	91	Public
Auburn University - Auburn	49,566	133	92	Public
University of Notre Dame	49,690	134	42	Private
University of Rhode Island	49,590	135	93	Public
University of Idaho	49,566	136	94	Public
Florida International University	47,913	137	95	Public
North Dakota State University	45,375	138	96	Public
University of Nebraska Medical Center	44,449	139	97	Public
University of Central Florida	44,020	140	98	Public
University of Oregon	43,634	141	99	Public
Oklahoma State University - Stillwater	43,345	142	100	Public
Syracuse University	43,162	143	43	Private
University of Kansas Medical Center	42,399	144	101	Public
University of Oklahoma Health Sciences Center	42,145	145	102	Public
University of California - Riverside	40,981	146	103	Public
Louisiana State University Health Sciences Center	40,493	147	104	Public
Charles R. Drew University of Medicine and Science	40,430	148	44	Private
Howard University	40,086	149	45	Private
George Mason University	39,758	150	105	Public
University of Alabama - Huntsville	39,607	151	106	Public
University of Mississippi - Oxford	39,041	152	107	Public
University of Oklahoma - Norman	39,003	153	108	Public

# NSF INFO BRIEF 07-326 FY 2005

## FEDERAL S&E OBLIGATIONS

- Six of the top majority institutions received more federal funds for research than 79 HBCU's combined.

# DSU Expanded Degree Offerings



## Spring 2003

## Spring 2007

■ Bachelors	66	65
■ Masters	13	20
■ Doctoral	<u>0</u>	<u>2</u>
	79	87

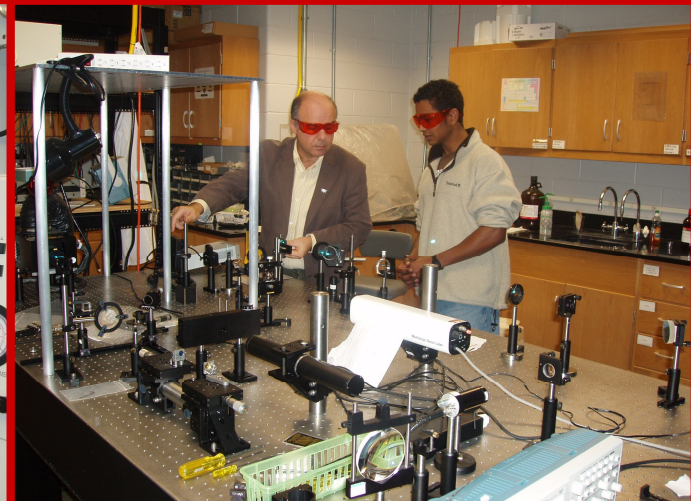
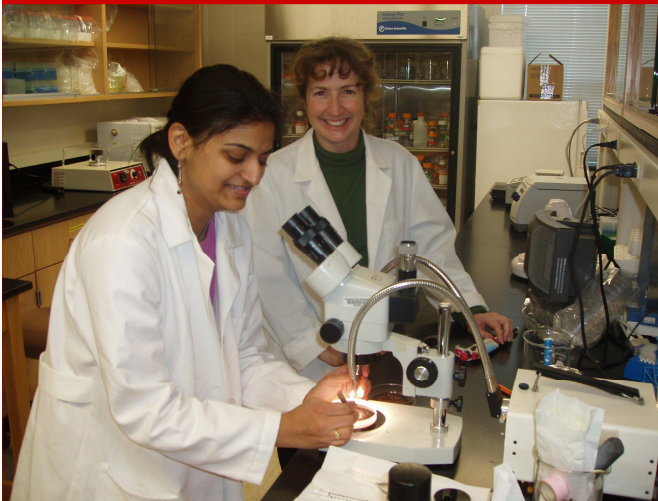
# S&E Graduate Programs are Essential

- DSU first doctoral program in Interdisciplinary Applied Mathematics and Mathematical Physics – 2004.
- First Graduates – May 2007.



# Three More PhD Programs in Planning/Implementation

- Molecular Neuroscience
- Applied Chemistry
- Applied Optics



# Research Sampling

*On-going research provides students with learning opportunities:*

- Litter management strategy to reduce water pollution
- Farm animal de-worming study
- Laser spectroscopy application to medicine
- Optical soliton application to telecommunications
- Laser bio-imaging techniques
- Hydrogen storage
- St. Jones Estuary
- Ground-penetrating radar imaging and signal processing
- Molecular neuroscience
- Biotechnology
- Annual migration of sand tiger sharks
- Shellfish aquaculture research

# DSU RESEARCH GROWTH

- 2003 - 2004 \$ 8 Million (approx.)
- 2004 - 2005 \$15 Million (approx.)
- 2005 - 2006 \$24 Million (approx.)
- 2006 - 2007 \$30 Million (approx.)
- 2007 - 2008 \$40 Million (est.)